

2014 Collision Analysis
CROMS – Collision Reporting and
Occurrence Management System
Infrastructure, Investment, and Development
Services Committee

PRESENTED BY

Steve Rose, CET, TSOS

Roads, Parks and Fleet - Traffic & Parking

Tuesday, April-07-15

The City of
BARRIE

What is CROMS

- Collision Reporting and Occurrence Management System (CROMS) is a web based software tool created by Accident Support Services International (ASSI).
- It allows staff to review up to date and accurate collision statistics for the City of Barrie.
- Began as a pilot project in 1994 with the Toronto Police Service and six insurance companies.
- Close to 70% of all Ontario Police agencies including Barrie Police use CROMS.

Historical Approach to Data Collection

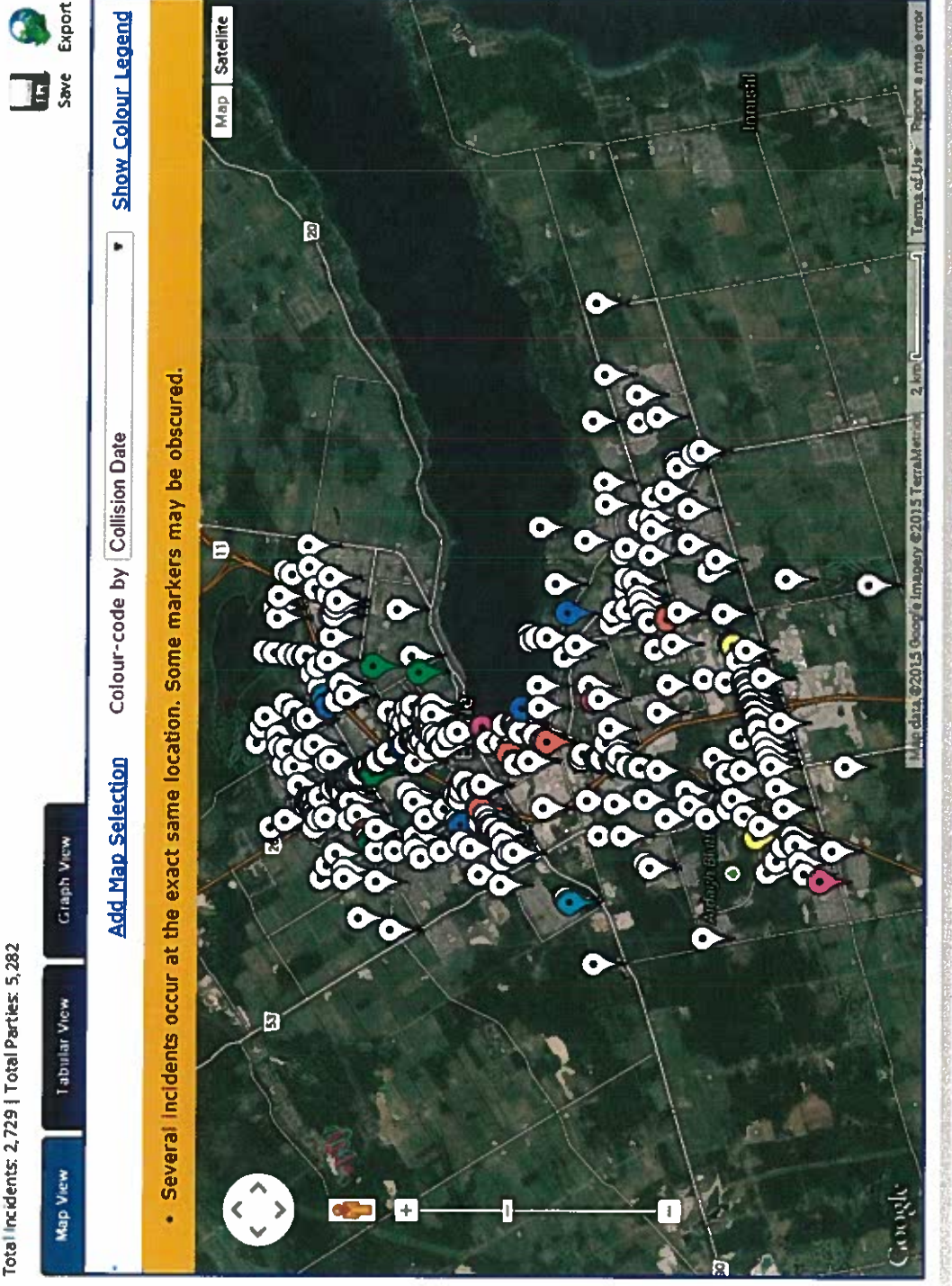
- Previous to using CROMS, Barrie Police would photocopy every collision report and send them to our Department.
- City of Barrie staff would then scan the records and enter the data into an access database for review by Traffic staff. (approx. 65 Fields)
- Our summer student would then process the collisions to develop an annual list of top ten locations. This process would take approximately 6 weeks.
- That task with CROMS is now performed in less than 60 seconds

How CROMS Works

- ASSI has staff located at each Police agency they are partnered with where they receive all of the collision reports as filled out by the officers.
- The staff format the collision reports into the CROMS system and also assigns them by actual location of collision to a map of Barrie.
- City of Barrie Traffic Services was the first municipality where non police staff have access to the data.

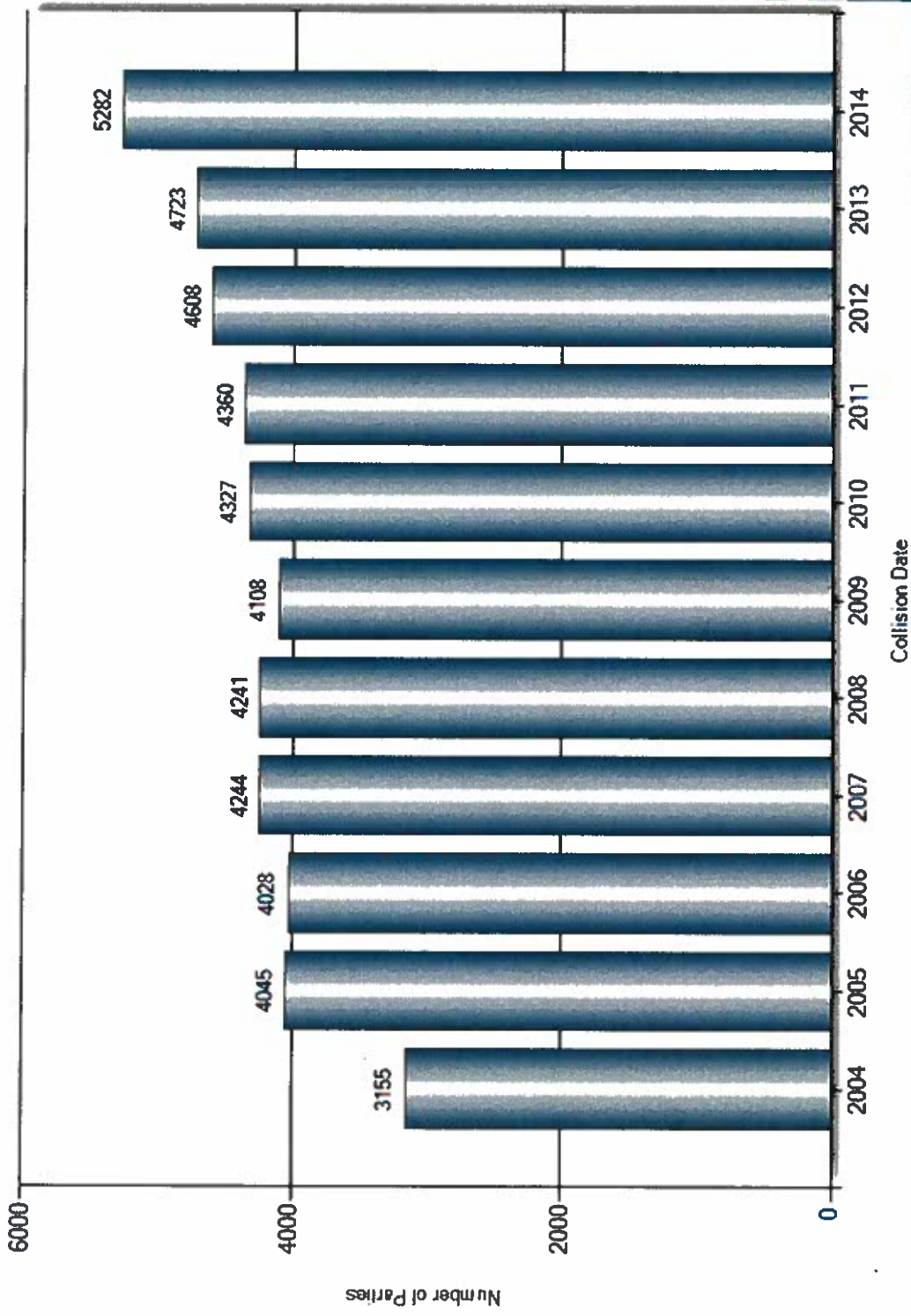
2014 Collisions

Total Incidents: 2,729 | Total Parties: 5,282



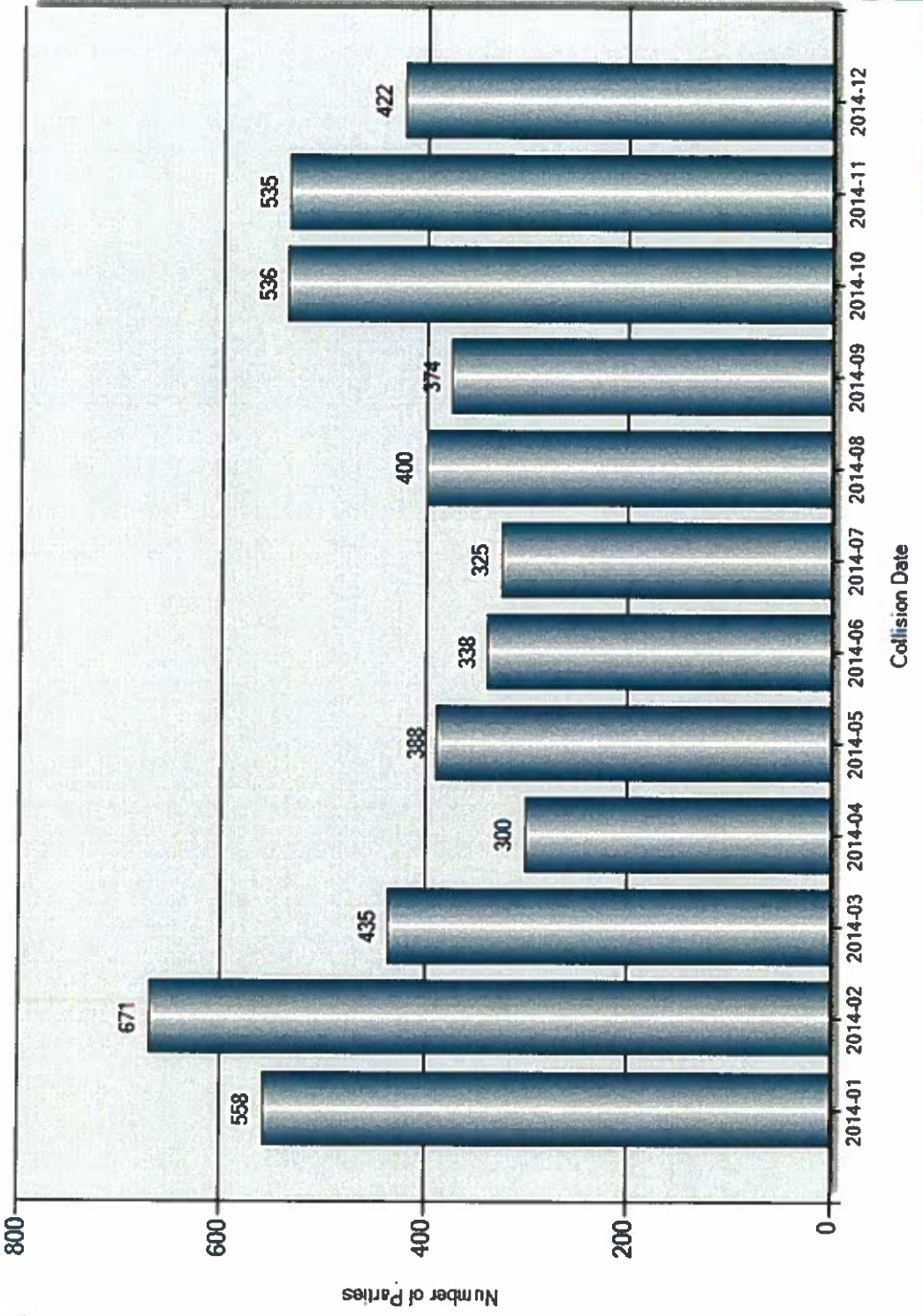
Comparison by Year

All Incidents

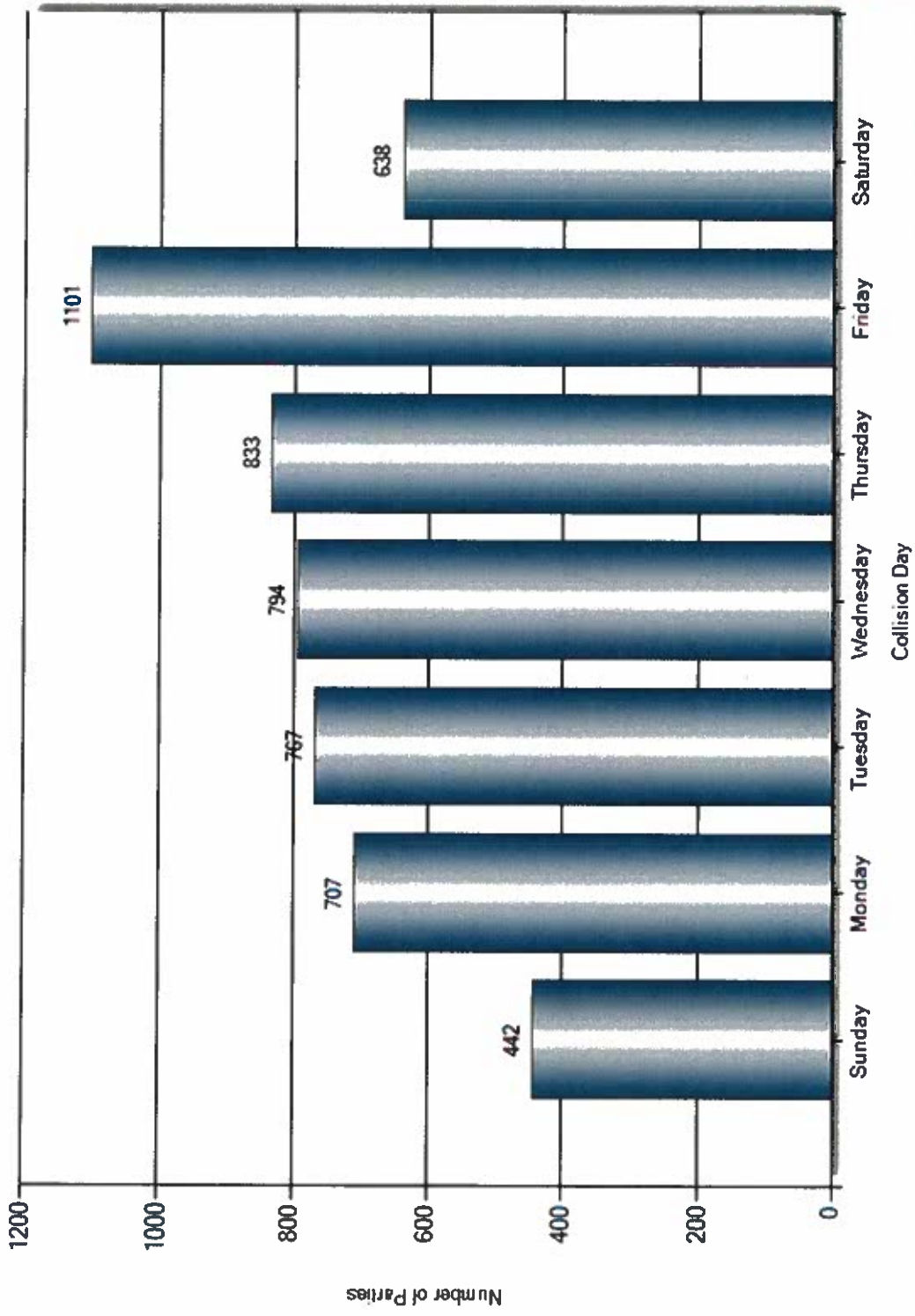


2014 Parties Involved - Month

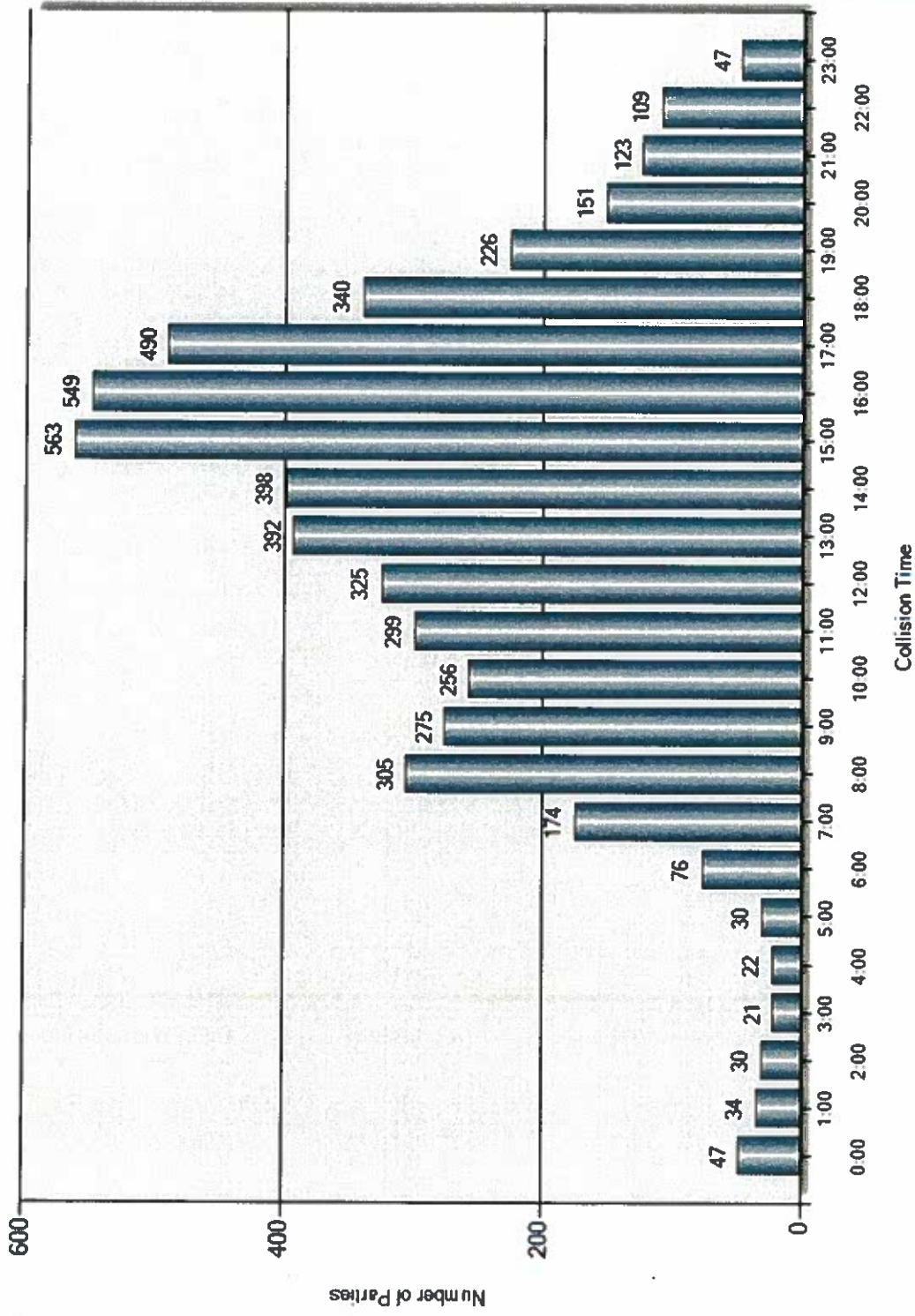
All Incidents



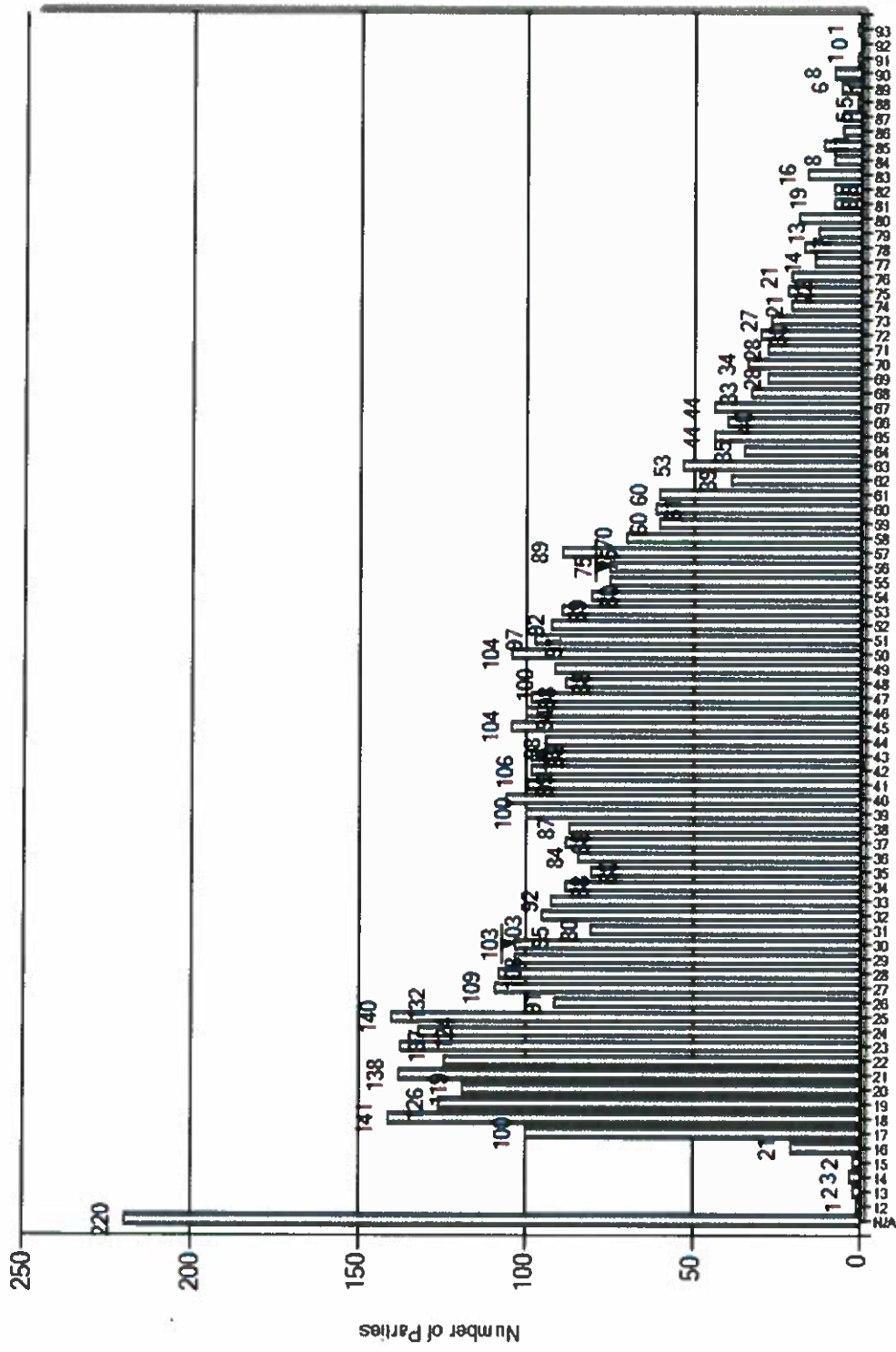
2014 Parties Involved - Day of Week



2014 Parties Involved - Time of Day

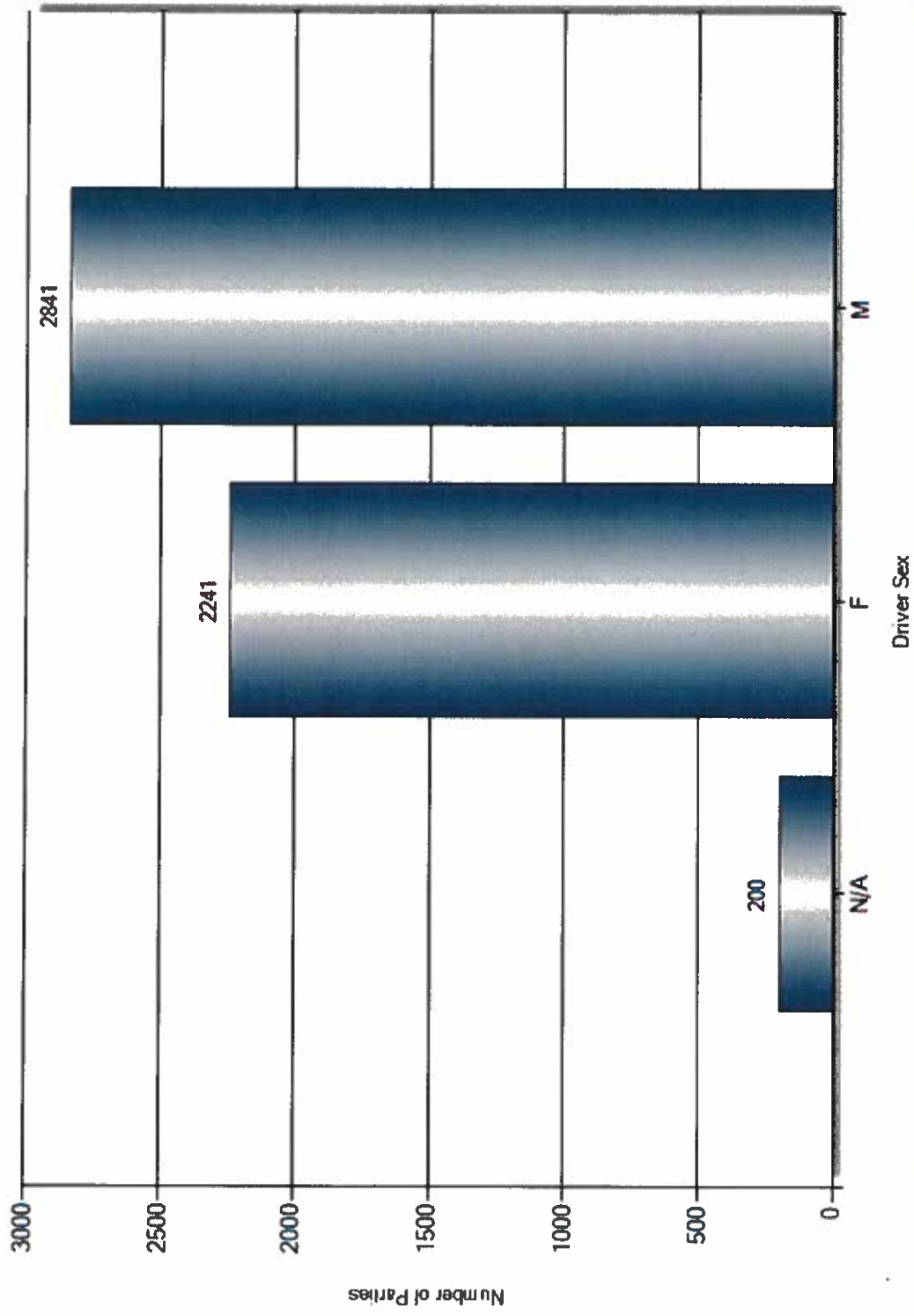


2014 Parties Involved - Age

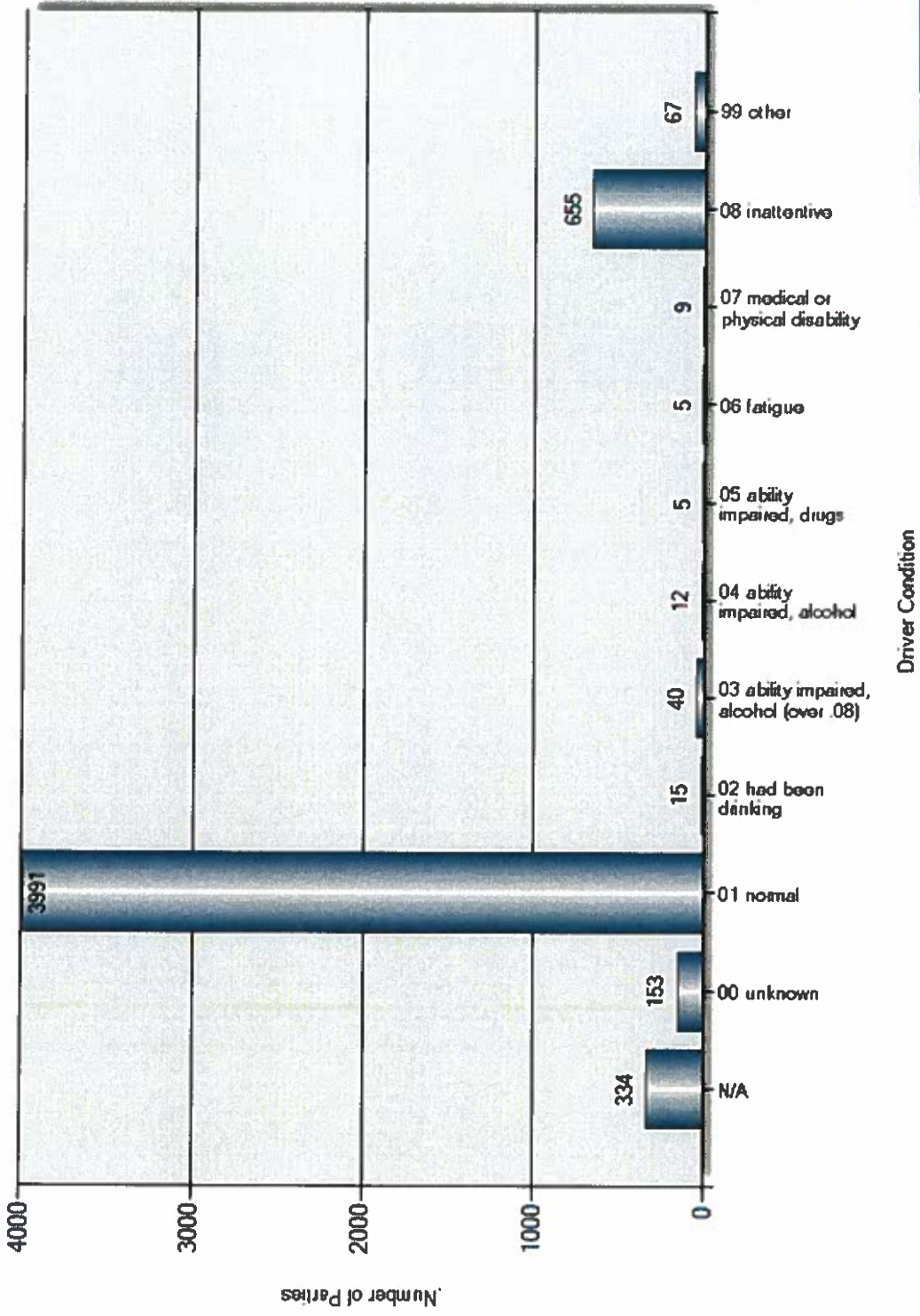


Driver Age

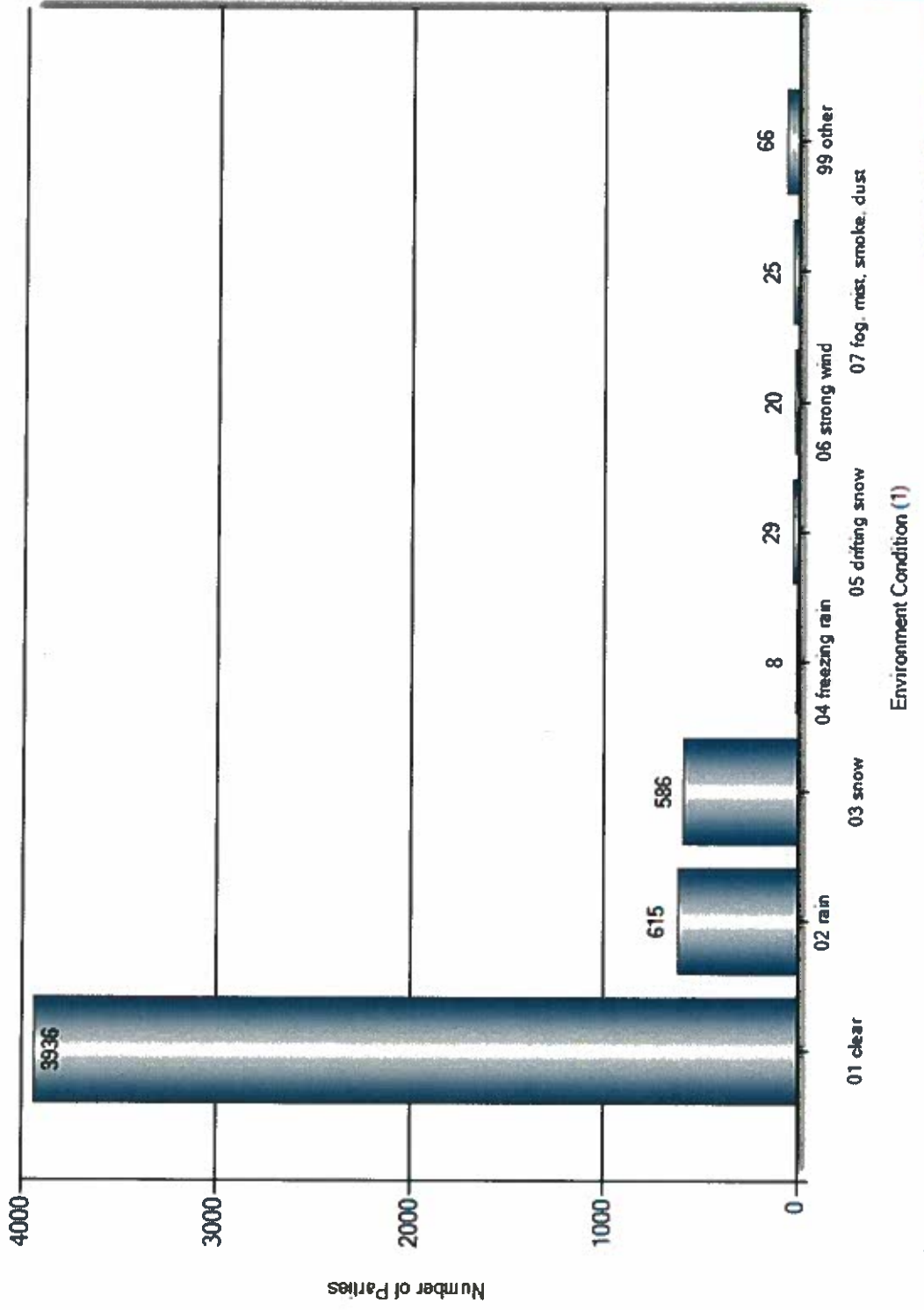
2014 Parties Involved – Driver Sex



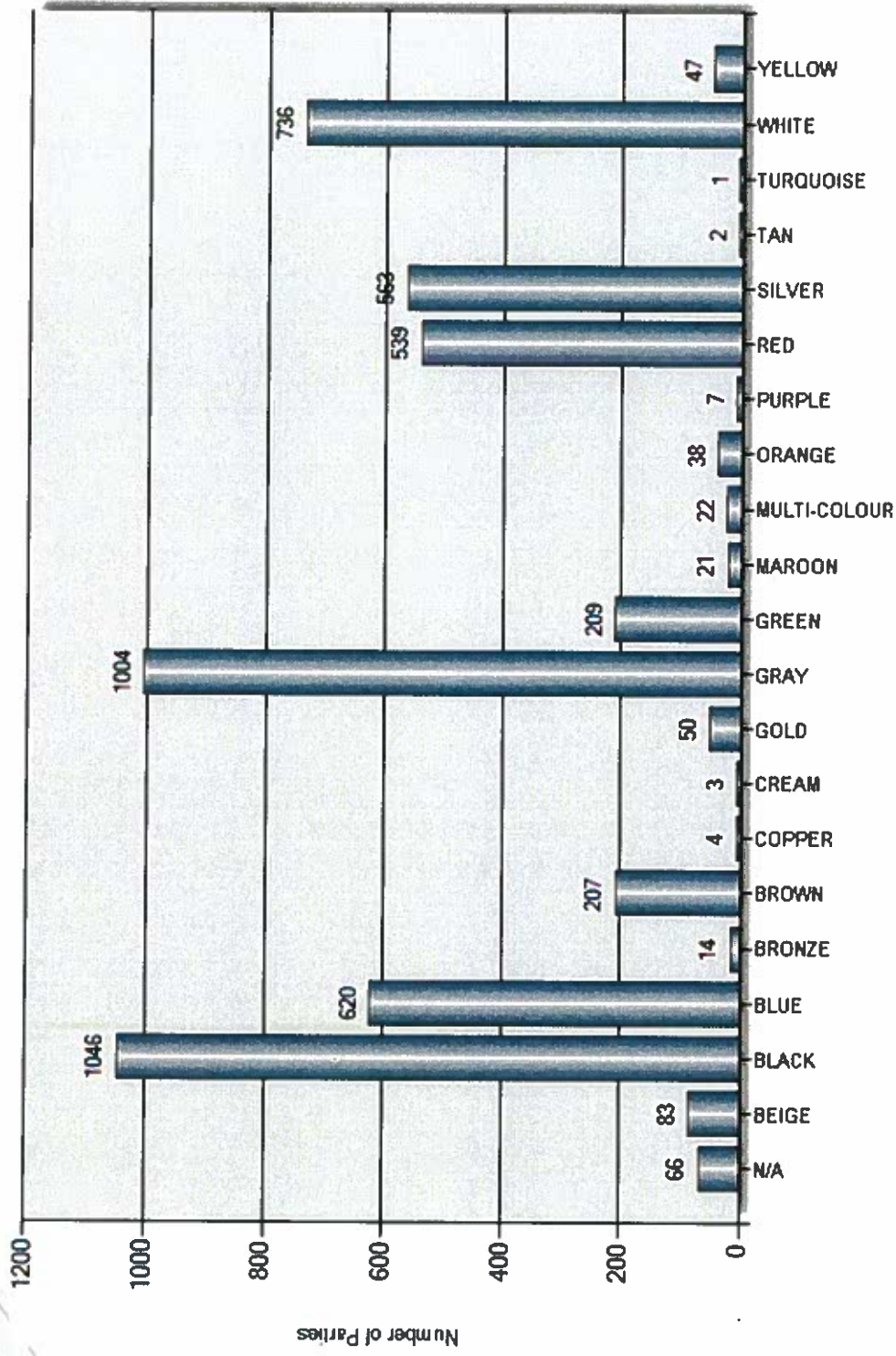
2014 Parties Involved – Driver Condition



2014 Parties Involved – Environmental Condition

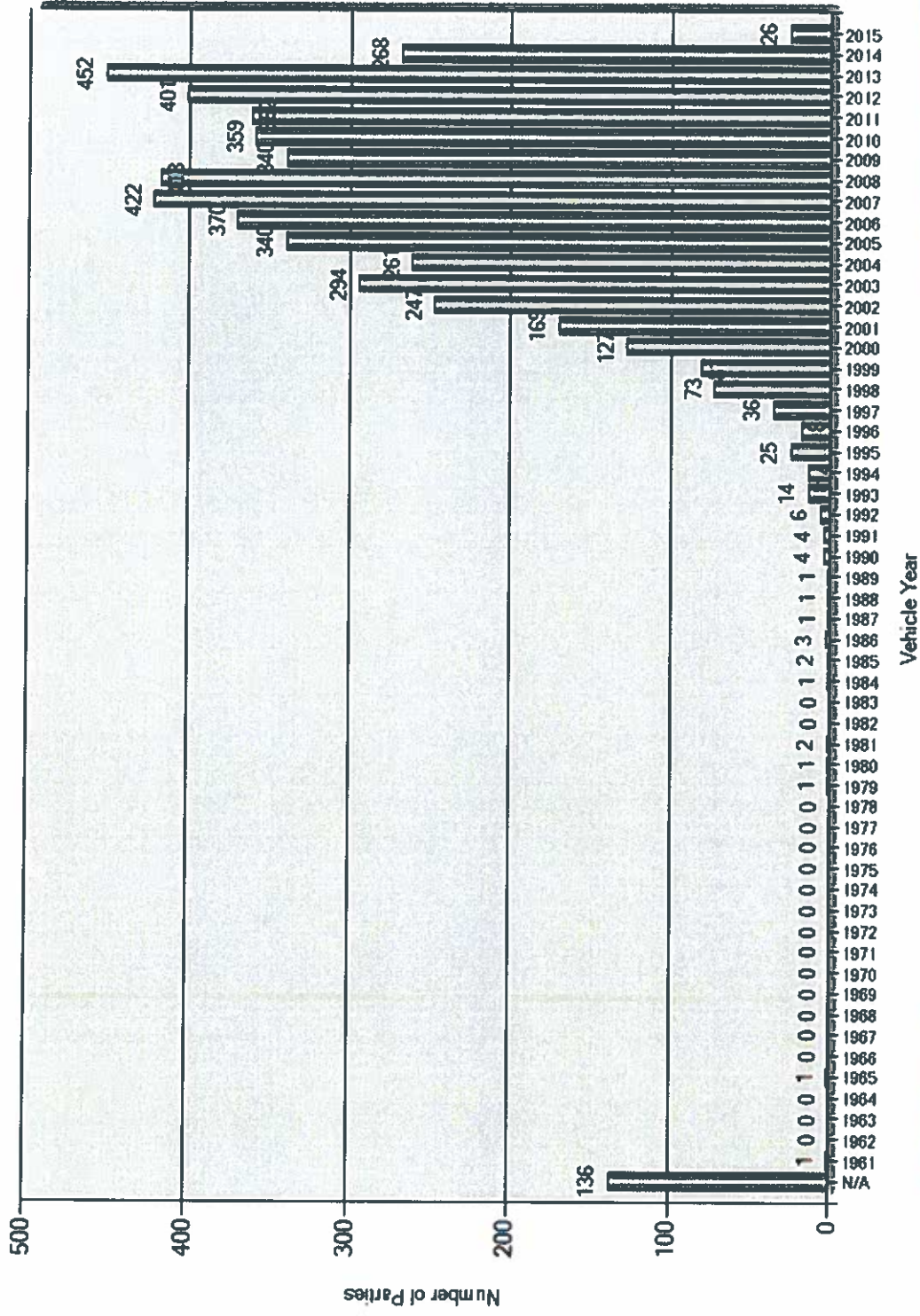


2014 Parties Involved – Vehicle Colour

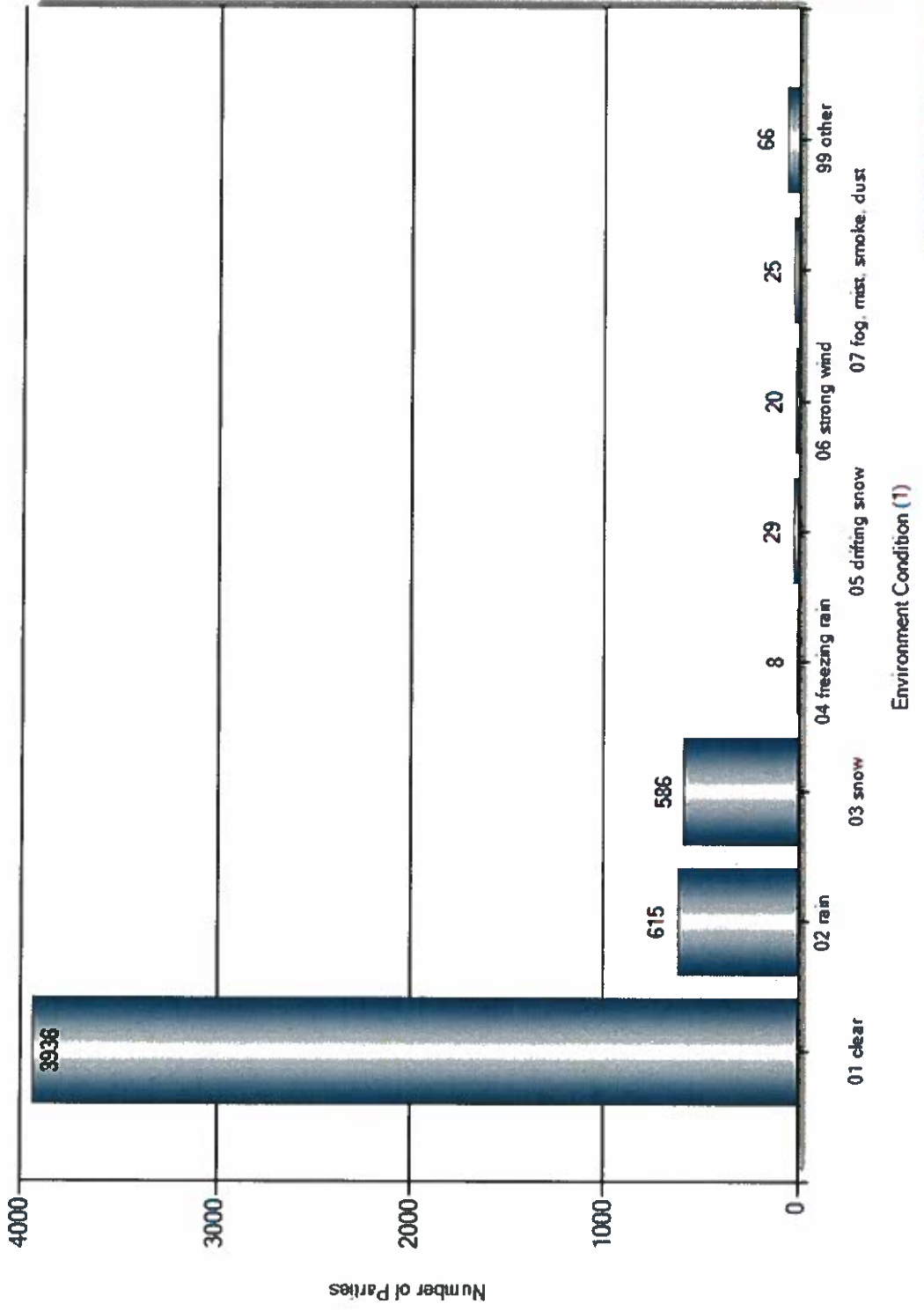


Vehicle Colour

2014 Parties Involved – Vehicle Year



2014 Parties Involved – Environmental Condition



How do we use this Data?

Top 20 Intersections Report

Report Date: Jan 20, 2015 @ 6:09:19 pm
 Collision Reporting Centre: <All> Start Date Of Loss: 1/1/2014 End Date Of Loss: 12/31/2014 Police Jurisdiction: Barrie Police Service

Accident Location	Incidents	Parties	Damage Estimate
ESSA RD & FAIRVIEW RD	20	39	\$7,800.00
BAYVIEW AVE & MAPLEVIEW DR E	20	36	\$15,700.00
ESSA RD & HWY 400	19	38	\$46,150.00
BAYFIELD ST & HEATHER ST	18	36	\$11,550.00
HWY 400 & MAPLEVIEW DR E	16	29	\$10,200.00
BAYFIELD ST & CUNDLES RD W	15	29	\$0.00
HWY 400 & MAPLEVIEW DR W	15	28	\$21,983.45
BAYFIELD ST & FERRIS LANE	14	31	\$15,500.00
ESSA RD & TIFFIN ST	14	28	\$19,600.00
HURONIA RD & MAPLEVIEW DR E	13	26	\$5,000.00
BAYFIELD ST & LIVINGSTONE ST W	13	24	\$15,300.00
ANNE ST N & DUNLOP ST W	13	23	\$12,150.00
ESSA RD & MAPLEVIEW DR W	12	25	\$1,150.00
BRYNE DR & MAPLEVIEW DR W	12	24	\$23,000.00
BARRIE VIEW DR & MAPLEVIEW DR W	12	23	\$7,100.00
MAPLEVIEW DR W & VETERANS DR	12	22	\$2,000.00
BAYFIELD ST & ROSE ST	12	21	\$10,600.00
BRADFORD ST & TIFFIN ST	12	21	\$10,286.64
MAPLEVIEW DR E & WELHAM RD	11	23	\$35,820.02
CUNDLES RD E & SAINT VINCENT ST	11	22	\$11,700.00
TOTALS:	284	548	\$282,690.11

How do we use this Data?

- Several incidents occur at the exact same location. Some markers may be obscured.



Next Steps

- Staff will review the top 20 locations and look for similar patterns.
- A site visit of the identified intersections will be scheduled with staff from various groups including D&C, Roads OPS and Traffic.
- Develop a plan for any recommended actions.
- The collision data is also used by Fleet Services to help in driver training of City staff.
- A recap of 2014 collisions statistics show that it likely involves a 17-25 year old driving a 2013 black Ford on a clear Friday at 4 pm in February.

Questions?